



For selective isolation and enumeration of yeast and molds in water, milk and milk products

Composition

Ingredients	Gms/Ltr.
Yeast extract	5.00
Dextrose	20.00
Chloramphenicol	0.10
Agar	14.90

* Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers 2-8°C and protect from direct Sunlight.

Instructions for Use

Dissolve 40.0gms in 1000ml distilled water. Gently heat to boil with gentle swirling and dissolve the medium completely. Sterilize by autoclaving for 15 psi (at 121°C) for 15 min. Cool to 40 - 45°C, mix well and pour into sterile Petri plates.

Appearance: Light beige colour, opalescent gel
pH (at 25°C): 6.6 ± 0.2

Principle

YEAST GLUCOSE CHLORAMPHENICOL AGAR is used for selective isolation and enumeration of yeast and molds.

Yeast extract provides the source of amino acids and essential vitamins required for fungal growth. Dextrose is a fermentable carbohydrate, which provides carbon and energy. Chloramphenicol is an antibiotic, which helps in suppression of bacteria. Agar as a solidifying agent.

The combination of media ingredients and appropriate incubation temperature of 25 ± 1°C upto 5 days allow detection of large number of pathogenic fungi.

Interpretation

Cultural characteristics observed after inoculation (10³CFU/ml) and incubation at 25 ± 1°C for 3 - 5 days.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Candida albicans</i>	10231	10 ³	Good - Luxuriant
<i>Saccharomyces cerevisiae</i>	9763	10 ³	Good - Luxuriant
<i>Aspergillus brasiliensis</i>	16404	10 ³	Good - Luxuriant
<i>Escherichia coli</i>	8739	10 ³	Inhibition

References

1. International Organization for Standardization: Water Quality - Enumeration of culturable microorganisms - Colony count by inoculation in a nutrient agar culture medium. International Standard IS) 6222. (1999).